





FINANCING AND BUSINESS MODELS THAT DELIVER

Canada EU exchange on energy efficiency in buildings and housing

15/06/2021





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Note: Today's presentation is being recorded and will be provided within 48 hours, along with the slide deck.









Welcome & agenda

Oliver Rapf, Executive Director, BPIE

Session 1: Boosting energy efficiency investments

- Energy efficiency financing: Strategies and considerations in non-domestic real estate in Europe Ioannis Orfanos, Partner, Arbitrage Real Estate
- Unlocking Investments in Retrofits

Akua Schatz, Vice-President for Market Engagement and Advocacy, Canada Green Building Council

- Q&A

Session 2: Linking funds to projects – Business models that deliver

- Providing Energy Services Contracting in Canada

Stuart Galloway, CEO at Energy Services Association of Canada (ESAC)

- Financing energy efficiency projects and scaling business models: An investor's perspective Csaba de Csiky, Chairman & Managing Partner, EnerSaveCapital
- Q&A and panel discussion with all speakers

Closing remarks

Oliver Rapf, Executive Director, BPIE









Boosting energy efficiency investments



Ioannis Orfanos Partner, Arbitrage Real Estate



Akua Schatz

Vice-President for Market Engagement and Advocacy, Canada Green Building Council









Energy efficiency financing: Strategies and considerations in non-domestic real estate in Europe

Ioannis Orfanos, Partner, Arbitrage Real Estate







Energy Efficiency (EE) Financing

Strategies and Considerations in Commercial Real Estate

Ioannis Orfanos Partner, Arbitrage Real Estate



15 June 2021

RICS

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Energy Efficiency (EE) Financing Overview



Main Drivers for change

Technology, Transition and Integration

- Understanding Energy Efficiency (EE) Finance
 Complexities and Barriers
- Investment Strategies and Commercial Aspects
 Underwriting and Strategies
- Buy-Fix-Sell:

Value Add and Health&Wellbeing





Main drivers for change Important technological developments







Main drivers for change

Transition from 'old' energy to 'new' energy - a fundamental shift







Main drivers for change

Towards a clean tech integrated path in real estate









Understanding Energy Efficiency (EE) Finance The complexity of business case development



A proper business case to:

- Focus on financial structuring, optimum financing solution
- Focus on internal rate of return and to a lesser extent to payback periods
- Highlight the additional corporate benefits (risks mitigation, compliance, CSR, investment)
- Gain senior-management buy in



Understanding Energy Efficiency (EE) Finance The general market barriers to EE finance uptake







Understanding Energy Efficiency (EE) Finance Aggregation barriers in EE financing









Investment Strategies and Commercial Aspects Financing based on energy efficiency strategy



Energ y Strateg v	Technic al solution s	Cash (balance sheet)	Debt (extended balance sheet)	3rd party (off balance sheet)
Generation - Income	Renewables • Biomass • CHP • Solar (rooftops) • Battery/Storage • District heating	 CapEx budget Cash reserv es Direct equity 	 Dedicated credit lines Vendor lease (% PPAincome) Project finance loan (based on PPA and equipment guarantees) Green bonds 	 Renewable energy funds EPC – ESCo finance Cleantech funds Risk sharing facilities
	M &E Equipment • BEMS • Boilers • HVAC • Transmission • Lighting	 Working capital CapEx budget Cash reserv es New equity 	 Dedicated credit lines Vendor lease (% savings) Corporate loan Project finance Green bonds 	 ESA- ESCO finance Energy efficiency funds Risk sharing facilities On-bill financing
Reduction -Saving	Fabric • Glass • Insulation • Shading	CapEx budget (part of refurbishment) New equity	 Corporate loan (balance sheet guarantee) 	 Gov t subsidized instruments On-bill financing
	Cost of Capital depending on	0-20% WACC/ Alternatives	~3-8% credit rating	~ 8-10+% on type of fund

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Strategies	Main financiers	Type of Assets/Projects ¹	Additional sources of finance
Capital Expenditure (Own finance)	 Public sector Property investors Landlords / REICs Corporate owner occupiers 	 Gov emment estates Public infrastructure Core commercial real estate (e.g. office, hotel, retail etc) Asset with long residual commercial life 	 Equipment vendor leases Grants, subsidies, tax incentives Dev elopment banks (risk sharing facilities) Commercial banks (dedicated credit lines) Green bonds
3rd party finance (ESAor EPC)	 ESCo financing Public funds (e.g. UK Salix) Energy efficiency funds Utilities (on-bill financing) 	 Gov ernment estates Public infrastructure M.U.S.H.² Corporate owned real estate 	 Equipment vendor leases Grants, subsidies, tax incentives Dev elopment banks (risk sharing facilities) Commercial banks (dedicated credit lines) Public Private Partnerships Green bonds
Buy-Fix-Sell	 Added-value funds Opportunistic funds Distress funds 	 Commercial real estate with owners in distress Semi-completed dev elopments Aged commercial real estate 	 Discounted acquisition price (indirect) Commercial banks (incl. acquisition credit) Green bonds Specialized mezzanine funds

Notes: 1-It does not include stand alone off-site renew able energy projects

2 – Municipalities, Universities, Schools and Hospitals



Investment Strategies and Commercial Aspects Value add strategy









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(Buy-)Fix-Sell: Value add strategy Investment opportunity



Increasing regulation, changing tenant demand, investment appetite and shortage of suitable stock creates an opportunity to generate attractive risk adjusted returns through a resilient value add strategy

1	Increasing regulatory ambition driving tenants to consider the energy efficiency upgrade of their occupied properties	 The Global Climate Agreements EU Investment Goals and Energy Transition Plans Energy Efficiency (EED) and Energy Performance in Buildings (EPBD) Directives National Regulations for Energy Efficiency and Low Carbon Buildings
2	Significant tenant and investor demand for more sustainable and "healthier" buildings	 Corporate occupiers are increasingly demanding for sustainable, low carbon, energy efficient and "healthier" buildings Major corporate occupiers demand provides value generation opportunities Major institutional investors target climate resilient and green certified properties
3	Inadequate supply of energy efficient and sustainable buildings	 Deep pool of non compliant assets that need repositioning Viable opportunities to fully reposition existing buildings Resilient assets are attracting occupiers and higher v alues



(Buy-)Fix-Sell: Value add strategy Selection, value creation and exit



The Real Estate Investors target assets that offer value-add upside potential through sustainability led active asset management

STOCK SELECTION VALUE CREATION EXIT STRATEGY

- Invest in knowledge driven economies and vibrant cities
- Macro locations that benefit
 from access to robust low carbon infrastructure
- Predominantly commercial locations within cities
- Target (mostly office) assets with value add upside potential
- Acquire EPC ratings G/F/E, improve to B/A/A+
- Seeking ticket size mainly between €10-50m

- JVs with 'Green' (re)Developers or Corporate Occupiers
- Activeasset management:
 - Asset repositioning
 - Retrofit existing space
- Lease vacant retrofitted space
- Rent reviews and lease regears in retrofitted space
- Generate 'Green Alpha' –
 additional asset value through
 improved certified sustainability
 and health& wellness aspects

- Focused on creating 'future proofed' (mostly office) assets – attractive to corporate occupiers and institutional investors
- Emphasis on mitigating the commercial risk of asset obsolescence / downside risk protection
- Emphasis on the sustainability and climate resilience benefits during asset marketing
- Promote to institutional investors to fuel their vast appetite for climate resilient and sustainable assets that de-risk their portfolio's investment performance



(Buy-)Fix-Sell: Value add strategy The trend of Health & Wellbeing in Buildings



"The trends all point in a single direction... Wellness is the next trillion dollar industry" McKinsey & Co

First tenant, then office indoor design	The importance of the physical office space	Business tenant operating costs and productivity	
 Employees spend 90% of their time indoors. Tenants v alue therefore indoor air quality, temperature comfort and physical lighting to improve their staff physical 	 The physical office influence the health of occupiers and can be measured or ev aluated 90% of employees admitted that their attitude to work is 	Staff accounts for 90% of operating costs, doubling the health lev el of an office can double productiv ity	
to improve their statt physical health and thus perceived productivity.	adv ersely affected by the quality of their workplace	1% Unitation 1% Energy Costs 1% for equal impact	
	PHYSICAL / SOCIAL ENVIRONMENT MEDICAL CARE	• 9% Rental Costs • 90% Staff Costs (Salaries and Benefits) +/- 0.1% Energy Costs +/- 0.9% Rental Costs	
	GENETICS	+/- 9.0% Staff Costs	
Source: International W ELL Building Institute	Source: US Center for Disease Control & Protection	Source: W orld GBC	



(Buy-)Fix-Sell: Value add strategy Certification of Health & Wellbeing in Buildings

Focus on the elements that can be certified







(Buy-)Fix-Sell: Value add strategy Investment benefits of Health & Wellbeing in Buildings



Measured and evaluated outcomes



- Design: 0%, humanfocused design does not cost more
- Additional construction or retrofit: 0% - 5% as long as the principles are established from the start
- Materials: c.10% increase. Less toxic materials are more expensive at present

- The corporate office health & wellbeing environment can have a direct impact on occupants productivity.
- The outcome for the corporate tenant can be measured or ev aluated in the following ways:
 - Absenteeism/Presenteeism
 - Staff turnov er and retention
 - Medical complaints and related insurance costs
 - Physical complaints
 - Task efficiency and revenue

- Leasing: Reduced v acancy, potential higher rental v alues
- Turnov er: Reduced, higher retention of blue chip tenants
- Marketability: Faster and easier lease up or sell
- Transactability: More attractive asset proposition for institutional buyers
- Value: Green alpha yields



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Disclaimer



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Thank you

Strategies and Considerations in Commercial Real Estate

Ioannis Orfanos Partner, Arbitrage Real Estate Arbitrage Real Estate Advisors

15 June 2021



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Unlocking Investments in Retrofits

Akua Schatz, Vice-President for Market Engagement and Advocacy, Canada Green Building Council





Accelerating Low Carbon Buildings in Canada

June 15, 2021

Akua Schatz, VP Advocacy & Market Engagement Canada Green Building Council Not enough economically viable energy efficiency retrofit projects are being implemented in our buildings today...

8.

GREAT OVERALL RETROFIT MARKET POTENTIAL



CaGBC Building Solutions to Climate Change Report - 2017

Barriers to a Strong a Retrofit Economy





Custom Projects Lead to Costly Review



IREE CERTIFICATION REQUIREMENTS



ICP Standardizes Project

INVESTOR READY ENERGY EFFICIENCY ADVANTAGE



Investor Confidence Project in Action

CANADA INFRASTRUCTURE BANK (CIB) COMMERCIAL BUILDING RETROFIT INITIATIVE

Reduce GHG emissions

 Reduce greenhouse gas emissions from privately-owned commercial buildings through decarbonization retrofits

> \$2 Billion Investment

Transform the market

- Crowd in private capital.
- Drive retrofit activity that goes beyond industry norm, reaching more buildings and achieving deeper retrofits.
- Help establish energy retrofit investments as a **distinct asset class.**

Support co-benefits

- Support job creation, reduced energy costs, improved quality of life and associated social benefits
- Support long term sustainable asset renewal and climate change resiliency.

CBR INITIATIVE OVERVIEW

Purpose	Aggregate multiple retrofit projects, or invest in large single retrofits
Applicant	Building portfolio owner or retrofit aggregator
Rates	1-3% (tied to target GHG savings)
Term	Up to 25 years (tied to target GHG savings)
Size	Minimum \$25 million investment opportunity for the CIB
Building Types	Privately-owned commercial, industrial, and multi-unit residential buildings (> 5 units – excludes buildings covered by Part 9 NBC)
Coverage Ratio	80% (excluding grants and utility incentives) SPV must raise 20% minimum from an equity investor

CIB DUE DILIGENCE PROCESS

- Canadian Infrastructure Bank (CIB) will require all applicants to its Commercial Building Retrofit Initiative (CBRI) program to complete - Investor Ready Energy Efficiency (IREE) certification
- Applicants must confirm that the project has completed each of the steps in the retrofit project development cycle consistent with ICP Protocols. Projects must have achieved or will achieve IREE Certification.



Signs of a Mature Retrofit Economy



QUESTIONS AND DISCUSSION

Akua Schatz VP, Advocacy & Market Engagement Canada Green Building Council aschatz@cagbc.org







Q&A











Linking funds to projects – Business models that deliver



Stuart Galloway CEO at Energy Services Association of Canada (ESAC)



Csaba de Csiky Chairman & Managing Partner, EnerSaveCapital











Providing Energy Services Contracting in Canada

Stuart Galloway, CEO at Energy Services Association of Canada (ESAC)





Providing Energy Services Contracting in Canada – The Art of the Possible



ENERGY SERVICES ASSOCIATION OF CANADA

- Incorporated August 2010
- 6 founding independent energy service companies

 Represent >90% \$400 mil/year market for guaranteed Energy Service Performance Contracts (ESPC)

The Challenge Ahead

Unprecedented financial turmoil

- Canada combined debt \$2 trillion
- Unemployment rate of 8.9% with certain provinces higher
- Energy demand & prices increasing
- Canadian Legislation compliance for carbon
- Targeting Net Zero by 2050

Canada is set to fall short of its 2030 target to slash energy consumption by 30% currently forecasted less than 20% by the deadline

Energy We Waste In Buildings

only

- Buildings account for 11% of domestic GHG emissions
- In Canadian climate we waste 25%+ of the energy we consume
- Canada's buildings waste approx. \$150 billion every year
- 75% of the buildings we will occupy in 2050 are standing today

DIY solutions tend to generate between 5 and 10% savings

Where should we focus?

\$1 spent on more efficient energy <u>use</u> avoids\$3 in investment in energy supply

Supply Side

Demand Side

The greenest energy is the energy that isn't generated

PROMOTING PERFORMANCE BASED SOLUTIONS

Regional Trends?

- Every province is looking at EE and/ or GHG reduction
- Federal Carbon pricing
- Mixed on incentives
- Stimulus money

\$10-12.5 Billion in new investment 150,000 – 190,000 net new jobs

> ASSOCIATION OF CANADA

PROMOTING PERFORMANCE BASED SOLUTIONS

Emerging Trends....

- Traditional EPC model through an ESCO with performance guarantee and sometimes private sector financing
- Canada Infrastructure Bank
- SuperEsco model (finance led)
- New stuff
 - Inclusion of renewables,
 - EV Fleet acquisition
 - Extending contract periods for deeper retrofits,
 - inclusion of maintenance,
 - Federal green bonds

ENERGY SERVICES ASSOCIATION OF CANADA

The Good News Is

Change is happening!

PROMOTING PERFORMANCE BASED SOLUTIONS

Financing energy efficiency projects and scaling business models: An investor's perspective

Csaba de Csiky, Chairman & Managing Partner, EnerSaveCapital

EnerSaveCapital

Financing Energy Efficiency Projects and Scaling business models: An Investor Perspective

The key for scaling energy saving measures

- ✓ Needs to be implemented and financed by a third party
- ✓ Needs to be off-balance sheet
- ✓ Needs to pay for itself
- ✓ Needs to be easily financeable

Institutional Investor Logic

- ✓ a minimum issue size of € 50 Mio (preferably € 100 Mio.)
- ✓ a minimum ticket they would be able to subscribe to is of € 5 Mio.
- ✓ preferably an A credit rating
- $\checkmark\,$ a green bond certification
- \checkmark a listing
- ✓ preferably a tenure of 5 to 10 years.
- ✓ from the € 5K to 100K measure to a 100 Mio Note which investor are willing to subscribe to, there is a large gap.

Such gap we will only be able to bridge if we are able to co-mingle assets generated by various implementers to a standardised quality and within a standardised legal contractual framework.

EnerSaveCapital is a Luxembourg based company that with 4 key business lines:

- ✓ Advisory services in the field of energy saving and green energy generation
- ✓ ESG advisory services
- ✓ Securitization services
- ✓ EU funding advisory services

Within the EU H2020-funded "LAUNCH" project, amongst other work packages we lead the creation of standardised "As a Service" or "aaS" for the Energy Service Companies or "ESCO's".

- \checkmark This in turn accelerates deal closure and market growth within the energy efficiency arena.
- ✓ Finance is the key to the rollout to scale of energy saving measures in the heating, cooling and lighting sector. For scaling, standardization of contractual arrangements is key.
- ✓ Standardised contracts, are the base for the aggregation of Sustainable Energy Assets as tradable securities via securitization.
- ✓ This grant's ESCO's the opportunity to accelerate pipeline growth, deleveraging of their balance sheet, improving liquidity, and reallocation of credit risks to the bond buyers whilst granting companies in the energy efficiency arena access to capital markets.

Standardization as a key requirement

- ✓ Finance is the key to the rollout to scale of sustainable energy assets such as lighting, cooling, PVs, heating measures within the EU's B2C and B2B market (i.e. building sector, industry sector)
- ✓ For scaling, standardization of contractual arrangements is key.
- ✓ Standardized contracts are the base for the aggregation of Sustainable Energy Assets as tradable securities via securitization.
- ✓ This in turn accelerates deal closure and market growth within the energy efficiency arena.
- ✓ This grants ESCos the opportunity to accelerate pipeline growth, deleveraging of their balance sheet, improving liquidity, and reallocation of credit risks to the bond buyers whilst granting companies in the energy efficiency arena access to capital markets.

Mechanics of a standardized contract

Monetary Output = Payment

Aggregation of energy efficiency projects

Key benefits of securitization for ESCos

- ✓ The "As a service aspect" is for many companies which are having high debt levels, gearing or are limited by lenders covenants, to take on further debt, to sell their goods.
- ✓ Ability for sale of receivables removes receivables from the contractors books, thus reducing credit exposure, and freeing up capital for the core business
- ✓ At the same time it means the contractor can focus on their core business activities, and not be preoccupied with arranging the finance to do so
- Receivables represent the investment plus the contractors commercial margin, thus as soon as the receivables are sold, the contractor can take on new business and scale up
- ✓ Securitization vehicles in Luxembourg are taxed at a nominal rate, rendering profits "de facto" tax free

Securitization creates a 'conveyor belt' of projects: you can support the energy efficiency market growth and create new business opportunities

EnerSaveCapital

Thank you

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Q&A

Panel discussion

Oliver Rapf, Executive Director, BPIE

Stay tuned for our upcoming webinar: The backend of energy efficiency - Data

July 6th, 2021

www.bpie.eu

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